## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 25 August 2005 (25.08.2005)

PCT

## (10) International Publication Number WO 2005/077411 A2

- A61K 39/39, (51) International Patent Classification<sup>7</sup>: 39/04
- (21) International Application Number:

PCT/IB2005/000509

- (22) International Filing Date: 8 February 2005 (08.02.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/542,858

10 February 2004 (10.02.2004) US

- (71) Applicant (for all designated States except US): INNATE PHARMA [FR/FR]; Immeuble Grand Pré, 121, Ancien Chemin de Cassis, F-13009 Marseille (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROMAGNE, François [FR/FR]; Avenue Bellevue, 8 lot des 3 Citernes, F-13600 La Ciotat (FR). TIOLLIER, Jérôme [FR/FR]; 17, rue Bienvenu, F-13008 Marseille (FR).
- (74) Agents: GALLOIS, Valérie et al.; Cabinet Becker et Associés, 25, rue Louis Le Grand, F-75002 Paris (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Declaration under Rule 4.17:**

of inventorship (Rule 4.17(iv)) for US only

## Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITION AND METHOD FOR THE TREATMENT OF CARCINOMA

(57) Abstract: The present invention relates to compositions and methods useful for treating a carcinoma or viral infection in mammals, including humans. The methods and compositions typically comprise use of an immunogenic or immunomodulatory compound, and a  $\gamma\delta T$  cell activator, such that the composition is effective for treating a carcinoma or viral infection. In a preferred aspect of the invention, the methods comprise use of a a  $\gamma\delta T$  cell activator and a Mycobacterium antigen, for example is an attenuated strain of Mycobacterium bovis (Bacillus Calmette-Guérin (BCG).